SUBSTITUTE FORM PTO-1449 (MODIFIED)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. L-F/168DV3

November 10, 1999

SERIAL NO.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT Neer et al.

Neer et al.

GROUP

(37 CFR 1.98(b))

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL			PA	ΓEN	ΤN	υм	BER		ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SK	A.A	2	5	8	6	5	8	1	2/52	Tschischeck	604	123		
	A.B	3	6	9	0	3	1	2	9/72	Leibinsohn		418		
	A.C	3	7	0	1	3	4	5	10/72			2 R	9/70	
	A.D	3	7	3	1	6	7	9	5/8/73			214F	10/19/70	
	A.E	3	7	5	2	1	4	5	8/73	Runnels et al.	128	2 R	11/71	
	A.F	3	8	1	2	4	8	2	5/74	Clark	340	237 R	2/73	
	A.G	3	8	8	0	1	3	8	4/29/75	Wootten et al.	128 2 A		1/74	
	А.Н	3	8	8	8	2	3	9	6/75	Rubinstein	128	2 A	6/74	
	A.I	3	9	3	5	8	7	6	2/76	Massie et al.	137	177	11/74	
	A.J	3	9	8	9	6	2	5	11/76	Mason	210	94	2/75	
&K	A.K	4	0	0	6	7	3	6	2/77	Kranys et al.	128	2 A	11/74	

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
SK	A.L	147737	11/62	Soviet Union	128	DIG 13	No
	A.M	WO 96/20746	11.07.96	PCT			No
	A.N	0 181 691	21.05.86	European			Yes
	A.0	0 346 950	20.12.89	European			Yes
	A.P	0 567 186	27 Oct. 93	European			Yes
SK	A.Q	1.530.021	29 June 67	France			No

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

SK	A.R	Medrad, Inc., MEDRAD MARK V SYSTEM, Medrad Sales Brochure, 8/88
ЗK	A.S	Medrad, Inc., Medrad MCT Plus Front Load Injection System, Medrad, Inc. Sales Brochure, No Date
SK.	A.T	Liebel-Flarsheim, ANGIOMAT 6000 Digital Injection System, Liebel-Flarsheim Sales Brochure, 1987

**EXAMINER** 

DATE CONSIDERED

Feb/5,2000

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with pext communication to applicant.

James Sa and 1 Sheet 2 (B) of 5 SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO. SERIAL NO PATENT AND TRADEMARK OFFICE L-F/168DV3 (MODIFIED) APPLICANT INFORMATION DISCLOSURE STATEMENT BY APPLICANT Neer et al. **GROUP** (Use several sheets if necessary) FILING DATE November 10, 1999 (37 CFR 1.98(b)) U.S. PATENT DOCUMENTS ISSUE FILING DATE **EXAMINER** IF APPROPRIATE CLASS **SUBCLASS** INITIAL PATENT NUMBER DATE PATENTEE 8/76 9/78 Hyman 340 632 B.A 8 0 12/79 Asbell 350 116 B.B B.C 2 1 0 3 8 7/80 Jess et al. 128 214 E 12/77 12/77 214 B.D 2 7/80 Shim 128 214 E 3/79 B.E 2 3 6 5 1/81 McGill et al. 128 2/78 2 3 3/81 Brown 417 45 B.F 5 6 4 2 8 9 5 128 214 E 11/78 B.G 0 4 7/81 Lampert 128 214 E 12/79 B.H 3 1 2 3 4 1 1/82 Zissimopoulos et al. 214 E 8/80 3 7 3 1/83 128 B.I 6 6 Gupton 374 191 0 9 4 3/84 B.J 4 3 5 Shapiro 5 2 2 5 128 655 11/82 4 6/84 Heilman B.K 1 FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS **TRANSLATION COUNTRY OR DOCUMENT PUBLICATION** PATENT OFFICE **CLASS SUBCLASS** (YES/NO) NUMBER DATE WO 94/25089 28 April 94 PCT Yes B.L France No 2.735.031 12 Dec 96 B.M B.N **B.O** B.P B.Q

B.R Siemens Aktiengesellschaft, <u>SIMTRAC C</u>, Siemens Aktiengesellschaft Sales Brochure, No Date

B.S Liebel-Flarsheim, <u>Angimat CT-Digital Injection System for Enhanced CT Scans</u>, Liebel-Flarsheim Sales Brochure, 1988

B.T E-Z-EM, <u>Simple the Best Value in Low-Pressure CT Injection Systems. Percüpump 1A</u>, Therapex, Division of E-Z-EM Canada, Inc., Sales Brochure, 1990

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

**EXAMINER** 

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

00

SUBSTITUTE FORM PTO- (MODIFIED)	1449
	INFOR

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. L-F/168DV3

November 10, 1999

SERIAL NO.

NFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT Neer et al.

Neer et al.

GROUP

(37 CFR 1.98(b))

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL			PA <sup>-</sup>	ΓEN	ΤN	UM	BER		ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SK	C.A	4	4	9	6	3	4	6	1/85	Mosteller	604	123	8/83	
	C.B	4	5	0	8	5	3	2	4/85	Drews et al.	604	22	9/83	
	C.C	4	5	5	9	4	5	4	12/85	Kramer	250	577	4/83	
	C.D	4	5	6	5	5	0	0	1/86	Jeensalute et al.	417	53	2/83	
	C.E	4	6	5	0	4	6	2	3/87	Langer et al.	604	65	11/84	
	C.F	4	6	5	8	2	4	4	4/87	Meijer	340	632	3/85	
	C.G	4	6	9	5	2	7	1	9/87	Goethel	604	49	2/86	
	с.н	4	7	6	4	1	6	6	8/88	Spani	604	122		
	C.I	4	7	8	4	6	4	3	11/88	Siretchi et al.	604	122	5/87	
	C.J	4	7	9	7	6	5	5	1/89	Orndal et al.	340	521	3/87	
C.K 4 8 1 2 7 2 4 3/89		3/89	Langer et al.	318	599	11/84								

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
C.L						
C.M						
 C.N						
C.O						
C.P						
C.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

SK	C.R	Abstract, Soviet Union Patent No. 147737, 11/62
SK	c.s	Beach et al., <u>A bubble detector for automatic analgesic drug injectors.</u> , 8056 Jnal of Phys. E-Scientific Instructions, Vol. 13 (1980) Oct., N°10, London, Great Britain
	C.T	

**EXAMINER** 

Jaron Kennedy

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether on tin conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

		•				.,								Sheet	<u>4 (D)</u> of <u>5</u>	
SUBSTITUTE (MODIFIED)	FORM	РТО	-14	49	_					TMENT OF COMMERCE ID TRADEMARK OFFICE		Y. DOCKET NO 68DV3		SERIAI		
									CLOSURE PPLICANT			ICANT et al.				
(37 CFR 1.9	8(b))		(Us	se s	eve	ral s	hee	ts if	necessary)			IG DATE ember 10, 199	9	GROUP		
									U.S	S. PATENT DOCUMENTS						
EXAMINER INITIAL			PA <sup>-</sup>	TEN	TN	UM	BER	ł	ISSUE DATE	PATENTEE		CLASS	SUB	CLASS	FILING DATE IF APPROPRIATE	
JK	D.A	4	8	2	9	4	8	8	5/89	Balding et al.		364	509		9/85	
7	D.B	4	8	5	0	8	0	7	7/89	Frantz		417	63		6/87	
	D.C	4	8	5	4	3	2	4	8/89	Hirschman et al.		128	655		2/88	
	D.D	4	8	8	41	0	6	5	11/89	Crouse et al.	·	340	632		6/88	
	D.E	5	0	0	6	1	1	0	4/91	Garrison et al.	604	65		12/87		
	D.F	5	0	6	2	8	2	8	11/91	Waltz		604	51		2/90	
	D.G	5	2	0	6	5	2	2	4/93	Danby et al.	250	574		10/91		
	D.H	5	2	6	9	7	6	2	12/93	Armbruster et al.		604	155		4/92	
	D.I	5	2	7	9	5	6	9	1/94	Neer et al.		604	154		5/92	
	D.J	5	3	2	2	5	1	1	6/94	Armbruster et al.		604	155		11/93	
SK.	D.K	5	5	2	0	6	5	7	5/96	Sellers et al.		604	191			
					,	FOF	REIG	N P	ATENTS OR	PUBLISHED FOREIGN PA	TENT A	APPLICATIONS				
			E	OOC NU	:UM IMB		=		PUBLICATIO DATE	COUNTRY C		CLASS	SUB	CLASS	TRANSLATION (YES/NO)	
	D.L															
	D.M															
	D.N															
	D.O															
	D.P															
	D.Q															
					C	тн	ER	000	CUMENTS (Inc	cluding Author, Title, Date	e, Place	e of Publication	)			
	D.R															
	D.S															
	D.T															

EXAMINER: Initial if citation considered, whether of not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

**EXAMINER** 

DATE CONSIDERED 2/15/00

Sheet \_\_5 (E) \_\_of \_\_5\_\_

SUBSTITUTE (MODIFIED)	FORM F	то	-14	49							F COMMERCE MARK OFFICE	ATTY. D L-F/1680	OCKET NO. DV3	•	SERIAL NO.		
									CLOSURE PPLICANT			APPLICA Neer et a				- ,, , , , , , , , , , , , , , , , , ,	
			(Us	e se	eve	ral s	hee	ts if	necessary)			FILING D			GROUP	>	
(37 CFR 1.98	3(b))											Novembe	er 10, 1999				
		_							U.S	S. PATENT	DOCUMENTS		T	T			
EXAMINER INITIAL			PA1	ΓEN	ΤN	UM	BER		ISSUE DATE		PATENTEE		CLASS	SUBC	CLASS	FILING DATE IF APPROPRIATE	
SK	E.A	5	5	2	5	9	0	1	6/96	Clymer	et al.		324	201.2	01.21		
	E.B	5	6	5	3	6	9	4	8/97	Powles	et al.		604	240			
	E.C	5	6	8	9	5	4	5	11/97	Hopkins			378	206			
X	E.D	5	8	0	0	3	9	7	9/98	Wilson 6	et al.		604	154			
	E.E																
	E.F													<u> </u>			
	E.G																
	E.H																
	E.I																
	E.J																
	E.K																
						FOF	REIG	N P	ATENTS OR I	PUBLISHE	D FOREIGN PA	TENT APPL	ICATIONS				
			C	ос					PUBLICATIO	N	COUNTRY C					TRANSLATION	
				NU	МВ	ER		_	DATE		PATENT OFF	ICE	CLASS	SOBO	CLASS	(YES/NO)	
	E.L	<u> </u>						$\downarrow$					<u> </u>	<u> </u>			
	E.M							_					ļ				
	E.N							4									
	E.O							_									
	E.P							1						ļ			
	E.Q	<u> </u>												<u> </u>			
	4,000				C	тн	ERI	000	UMENTS (Inc	luding Au	thor, Title, Date	e, Place of	Publication	)			
	E.R																
	E.S				_								<del></del>				
	E.T																
EXAMINER	1				, <i>1</i>				_		DATE CONS	IDERED	/				
A	rase	In	ل	K	e,	n.	n	0	ly			2/15,	/00				
EXAMINER: I	nitial if	citat	tion	cor	nsid	erec	i, w	hett		onforman cation to	ce. Draw line t applicant.	hrough cita	ation only if	not in o	conforma	ance <u>and</u> not	

٠ ... . يى ق

SUBSTITUTE (MODIFIED)	FORM I	РТО	-14	49						TMENT OF COMMERCE D TRADEMARK OFFICE	ATTY. L-F/16	. NO. 7,410			
									CLOSURE PPLICANT		APPLION Neer e				
(37 CFR 1.98	- (~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_	eve	rals	shee	ts i	f necessary)			DATE nber 10, 1999		GROUP	
مدر		0,	<i>I</i> On.	<del>, ,</del>	1				U.S	S. PATENT DOCUMENTS					
EXAMINER INITIAL	3900		PA	7676E		UM	BER	l	ISSUE DATE	PATENTEE		CLASS	SUBC	LASS	FILING DATE IF APPROPRIATE
ЯK	A.A	ξű	4	9	1	9		8	12/49	Helfman et al.		604	154		
	A.B	4	8	0	4	3	6	8	2/89	Skakoon et al.		604	155		
	A.C	5	0	3	4	0	0	4	7/91	Crankshaw	604	154			
	A.D	5	2	3	2	4	4	9	8/93	Stern et al.	604	154			
	A.E	5	2	5	9	7	3	2	11/93	Stern		604	154		
	A.F	5	2	6	1	8	8	4	11/93	Stern et al.		604	154		
	A.G	5	2	9	5	9	6	6	3/94	Stern et al.	604	154			
	A.H	5	4	5	1	2	1	1	9/95	Neer et al.	604	218			
A.I 5 6 5 8 2 6									8/97	Neer et al.	604	154			
	A.J	5 6 9 5 4 6							12/97	Viallet	604	131			
SK	A.K	5	8	0	7	3	4	0	9/98	Pokras	604	183			
						FOI	REIG	SN F	ATENTS OR	PUBLISHED FOREIGN PAT	TENT AF	PLICATIONS			
			C		UM MB		Ī		PUBLICATIO DATE	COUNTRY C		CLASS	SUBC	LASS	TRANSLATION (YES/NO)
	A.L														
	A.M														
	A.N													1	
	A.0													E 3	
, , , , , , , , , , , , , , , , , , , ,	A.P													207	RE
	A.Q													/h/ (	[C/
-					C	тн	ER I	000	CUMENTS (Inc	cluding Author, Title, Date	, Place	of Publication)		MAIL ROOM	-1V
	A.R													ROC	
	A.S													Ĭ	
	A.T														
EXAMINER	crov	ر	P	Le	n.	ne	d	М	,	DATE CONS	^	12,20	200	) _	
EXAMINER:	Initial if	citat	ion	cor	nside	erec	ı, <b>©</b>	beti	ner or not in c	onformance. Drawline the cation to applicant.					nce and not

SUBSTITUTE (MODIFIED)	FORM	РТО	-14	49					U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. [ F/168	OCKET NO		SERIAL NO. 09/437,410		
									CLOSURE PPLICANT				APPLICA					
(37 CFR 1.9	8(b))		(Us	se s	eve	ral :	shee	ets i	f necessary)				FILING D	DATE er 10, 1999	)	GROU	P	
									U.:	S. PATEN	T DOCUMENTS	 }				1		
EXAMINER INITIAL			PA <sup>-</sup>	TEN	T N	IUN	1BEF	₹	ISSUE DATE		PATENTEE			CLASS	SUBO	CLASS		NG DATE PROPRIATE
QK F	R	R	Е	3	5	4	2	9	5/96	Sealfon				604	135	135		
DEC 0 7 W	В.В																	
A A	29 <sub>B.6</sub>														:			
d'a	, RYD																	
MOEMARK	B.E																	
	B.F					1												
	B.G										<u> </u>							
	В.Н						Τ											
	B.I					ĺ	1											
	B.J																	
	B.K						1						-					
						FO	REIC	3N F	ATENTS OR	PUBLISHE	D FOREIGN PA	TEI	NT APP	LICATIONS				
				OOC	UM MB		Т		PUBLICATIO DATE	NO.	COUNTRY (		1	CLASS	SUBO	CLASS		ISLATION ES/NO)
	B.L																	
	В.М																	
	B.N															****		
	в.о															C C		
	В.Р															700	110	R
	B.Q			-												3	110	CE
					C	OTH	IER	DOC	CUMENTS (Inc	cluding Au	ıthor, Title, Dat	e, F	Place of	Publication)	1	E	2	ÎAI.
	B.R															ROOM	ÛÛ	5
	B.S	ļ —														3		
	В.Т								,			•						
EXAMINER	har	m		$\nu$	,						DATE CONS		Λ	0.00				
									<del>1</del>			July 12,2000						
									ier or not in c ext communi		ce. Drawline t applicant.	thro	นัฐ์h cita	ation only if	not in o	conforma	ance <u>and</u>	not